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244	245	246	247	248	249	250	251	252	
253	254	255	256	257	258	259	260	261	
262	263	264	265	266	267	268	269	270	
271	272	273	274	275	276	277	278	279	
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289	290	291	292	293	294	295	296	297	
298	299	300	301	302	303	304	305	306	
307	308	309	310	311	312	313	314	315	
316	317	318	319	320	321	322	323	324	
325	326	327	328	329	330	331	332	333	
334	335	336	337	338	339	340	341	342	
343	344	345	346	347	348	349	350	351	
352	353	354	355	356	357	358	359	360	
361	362	363	364	365	366	367	368	369	
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406	407	408	409	410	411	412	413	414	
415	416	417	418	419	420	421	422	423	
424	425	426	427	428	429	430	431	432	
433	434	435	436	437	438	439	440	441	
442	443	444	445	446	447	448	449	450	
451	452	453	454	455	456	457	458	4	

PANEL A - S1	PANEL B - S1	PANEL C - S1	PANEL D - S1	PANEL E - S1
Select 5 Numbers 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Select 5 Numbers 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Select 5 Numbers 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Select 5 Numbers 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Select 5 Numbers 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
Select 1 Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Select 1 Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Select 1 Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Select 1 Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Select 1 Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

PLAY A										PLAY B										PLAY C										PLAY D										PLAY E														
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10	11	12	13	14	15	16	17	18		10	11	12	13	14	15	16	17	18		10	11	12	13	14	15	16	17	18		10	11	12	13	14	15	16	17	18		10	11	12	13	14	15	16	17	18						
19	20	21	22	23	24	25	26	27		19	20	21	22	23	24	25	26	27		19	20	21	22	23	24	25	26	27		19	20	21	22	23	24	25	26	27		19	20	21	22	23	24	25	26	27						
28	29	30	31	32	33	34	35	36		28	29	30	31	32	33	34	35	36		28	29	30	31	32	33	34	35	36		28	29	30	31	32	33	34	35	36		28	29	30	31	32	33	34	35	36						
37	38	39	40	41	42	43	44	45		37	38	39	40	41	42	43	44	45		37	38	39	40	41	42	43	44	45		37	38	39	40	41	42	43	44	45		37	38	39	40	41	42	43	44	45						
46	47	48	49	Pick 5 or							46	47	48	49	Pick 5 or							46	47	48	49	Pick 5 or							46	47	48	49	Pick 5 or							46	47	48	49	Pick 5 or						
Pick 1 or										Pick 1 or										Pick 1 or										Pick 1 or										Pick 1 or														
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10	11	12	13	14	15	16	17	18		10	11	12	13	14	15	16	17	18		10	11	12	13	14	15	16	17	18		10	11	12	13	14	15	16	17	18		10	11	12	13	14	15	16	17	18						
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ONE PLAY S1										ONE PLAY S1										ONE PLAY S1										ONE PLAY S1										ONE PLAY S1														

Figure 1 illustrates the first five steps of the 20-number insertion algorithm. Each grid shows the state of a 4x5 array after a specific step. The numbers 1 through 20 are distributed across the grid, with the number 10 being the focus of the insertion process. The steps show the number 10 moving from its initial position (1,5) to its final position (4,4) through a series of shifts.

2 PLAYS S1									4 PLAYS S2									6 PLAYS S3									8 PLAYS S4									10 PLAYS S5								
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45
46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49					

S1	BOARD A	BOARD B	BOARD C	S1	BOARD A	BOARD B	BOARD C
1	11 21 31	1 11 21 31	1 11 21 31	1	11 21 31	1 11 21 31	1 11 21 31
2	12 22 32	2 12 22 32	2 12 22 32	2	12 22 32	2 12 22 32	2 12 22 32
3	13 23 33	3 13 23 33	3 13 23 33	3	13 23 33	3 13 23 33	3 13 23 33
4	14 24 34	4 14 24 34	4 14 24 34	4	14 24 34	4 14 24 34	4 14 24 34
5	15 25 35	5 15 25 35	5 15 25 35	5	15 25 35	5 15 25 35	5 15 25 35
6	16 26 36	6 16 26 36	6 16 26 36	6	16 26 36	6 16 26 36	6 16 26 36
7	17 27 37	7 17 27 37	7 17 27 37	7	17 27 37	7 17 27 37	7 17 27 37
8	18 28 38	8 18 28 38	8 18 28 38	8	18 28 38	8 18 28 38	8 18 28 38
9	19 29 39	9 19 29 39	9 19 29 39	9	19 29 39	9 19 29 39	9 19 29 39
10	20 30	10 20 30	10 20 30	10	20 30	10 20 30	10 20 30

FIGURE 8

2 PLAYS S1									4 PLAYS S2									6 PLAYS S3									8 PLAYS S4									10 PLAYS S5								
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45
46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49					

FIGURE 8A

2 PLAYS S1									4 PLAYS S2									6 PLAYS S3									8 PLAYS S4									10 PLAYS S5								
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45
46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49					

FIGURE 8B

2 PLAYS S1									4 PLAYS S2									6 PLAYS S3									8 PLAYS S4									10 PLAYS S5								
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36
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46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49					

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6 7 8 9 10	6 7 8 9 10	6 7 8 9 10	6 7 8 9 10	6 7 8 9 10
11 12 13 14 15	11 12 13 14 15	11 12 13 14 15	11 12 13 14 15	11 12 13 14 15
16 17 18 19 20	16 17 18 19 20	16 17 18 19 20	16 17 18 19 20	16 17 18 19 20
21 22 23 24 25	21 22 23 24 25	21 22 23 24 25	21 22 23 24 25	21 22 23 24 25
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16 17 18 19 20	16 17 18 19 20	16 17 18 19 20	16 17 18 19 20	16 17 18 19 20
21 22 23 24 25	21 22 23 24 25	21 22 23 24 25	21 22 23 24 25	21 22 23 24 25
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